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	Application No.	Applicant(s)	
Notice of Allowability	10/719,067 Examiner	PRIL ET AL.	
	Hung Henry V. Nguyen	2851	<del></del>
The MAILING DATE of this communication and All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOL-NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	IS (OR REMAINS) CLOSED in the 85) or other appropriate communing RIGHTS. This application is sub-	is application. If not included cation will be mailed in due cou	ırse. <b>THIS</b>
1. $\boxtimes$ This communication is responsive to <u>8/2/05</u> .			
2. ⊠ The allowed claim(s) is/are <u>1-20</u> .			
3. $igspace$ The drawings filed on <u>11/24/2003</u> are accepted by the E	Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority <ul> <li>a) All</li> <li>b) Some*</li> <li>c) None</li> <li>of the:</li> </ul> </li> <li>1. Certified copies of the priority documents here.</li> <li>2. Certified copies of the priority documents here.</li> <li>3. Copies of the certified copies of the priority International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	ave been received. ave been received in Application I	No	ı from the
Applicant has THREE MONTHS FROM THE "MAILING DAT noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requir	ements
<ol> <li>A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which g</li> </ol>			ICE OF
<ol> <li>CORRECTED DRAWINGS (as "replacement sheets") r         <ul> <li>(a) including changes required by the Notice of Draftsp</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examin Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such</li> </ul> </li> <li>DEPOSIT OF and/or INFORMATION about the de attached Examiner's comment regarding REQUIREMENT</li> </ol>	person's Patent Drawing Review ( ——  ner's Amendment / Comment or in  R 1.84(c)) should be written on the in the header according to 37 CFR  eposit of BIOLOGICAL MATER	the Office action of drawings in the front (not the bail.121(d). IAL must be submitted. Note	
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-94)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/S Paper No./Mail Date 8/2/05)</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Depos of Biological Material</li> </ul>	5. ☐ Notice of Infor 8) 6. ☐ Interview Sum Paper No./Ma B/08), 7. ☐ Examiner's An	mal Patent Application (PTO-1	·
		HENRY HUNG N PRIMARY EXAM	GUYEN MINER

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## **DETAILED ACTION**

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance or after an Office action under *Ex Parte Quayle*, 25 USPQ 74, 453 O.G. 213 (Comm'r Pat. 1935). Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on August 2, 2005 has been entered.

# Information Disclosure Statement

2. The information disclosure statement (IDS) submitted on August 2, 2005 has been considered by the examiner.

## Reasons for Allowance

- 3. The following is an examiner's statement of reasons for allowance:
- a. Claims 1-8 and 20 have been found to be allowable because while the prior art discloses a lithographic apparatus and corresponding method having a measuring interferometer for measuring position of at least one of the substrate and reticle and a second harmonic interferometer for adjusting measurements of the interferometer but the prior art either alone or in combination, neither discloses nor make obvious the combination of a lithographic projection apparatus and method comprising, among other elements, a second harmonic interferometer for

measuring atmospheric conditions along an optical path, and a control system with specific functions, as recited in the instant claims of the present invention.

Claims 9-13 have been found to be allowable since the prior art of record either alone or in combination, neither discloses nor makes obvious the combination of a lithographic projection apparatus having among other features, a second harmonic interferometer with particular structures and functions, as recited in the instant claims.

Claims 14-19 have been found to be allowable since the prior art of record, either alone or in combination, neither discloses nor makes obvious the combination of a lithographic projection apparatus comprising: an interferometer, a second harmonic interferometer, a control system, along with a beam combiner having particular structure and functions, as recited in the instant claims of the present invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Prior Art Made of Record

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Pril et al (U.S.Pat. 6,747,729) is cited for its teachings of a lithography system having a displacement measuring interferometer and a second harmonic interferometer with specific

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operating wavelengths for adjusting measurements of the displacement measuring interferometer.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hung Henry V. Nguyen whose telephone number is 571-272-2124. The examiner can normally be reached on Monday-Friday (First Friday off).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Judy Nguyen can be reached on 571-272-2258. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Hung Henry V Nguyen Primary Examiner

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hvn 8/7/05